

This is a ~~RED Stamp~~

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL

Manual No.: 5-21000-OPS-GW
Procedure No.: Table of Contents, Rev 16
Page: 1 of 2
Effective Date: 06/30/93
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)

TABLE OF CONTENTS
FOR VOLUME II: GROUNDWATER

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GW.01	Water Level Measurements in Wells and Piezometers	2	05/12/92
DCN 92.01	Improve Form	2	10/28/92
DCN 93.01	Measuring Water Levels in Well Points	2	01/28/93
GW.02	Well Development	2	05/12/92
DCN 92.01	Practice Clarification	2	10/05/92
DCN 92.02	Update Forms to Include Form Number	2	10/22/92
DCN 93.01	Well Fluid Volumes	2	04/13/93
DCN 93.02	Well Development Updates	2	05/13/93
GW.03	Pump-In Borehole Packer Testing	2	05/12/92
GW.04	Slug Testing	2	05/12/92
DCN 93.01	Re-title Sect.5.2 and Add Bail-down Test	2	05/05/93
GW.05	Field Measurement of Groundwater Field Parameters	2	05/12/92
DCN 92.01	Eliminate Unsafe Work Practice	2	10/26/92
•DCN 93.01	Calibration Changes	2	06/30/93
GW.06	Groundwater Sampling	2	05/12/92
DCN 92.01	Form Update	2	EXPIRED
DCN 92.02	Update Forms to Include Form Number	2	10/22/92
DCN 93.01	Hydropunch	2	04/15/93
DCN 93.02	New GW Sample Collection Log	2	05/04/93
DCN 93.03	Hydropunch II	2	05/10/93
•DCN 93.04	Turbidity/Field Nitrate Analysis Changes	2	06/30/93

ADMIN RECORD

DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991

A-SW-001089

**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

Manual No.: 5-21000-OPS-GW
Procedure No.: Table of Contents, Rev 16
Page: 2 of 2
Effective Date: 06/30/93
Organization: Environmental Management

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GW.08	Aquifer Pumping Tests	1	05/12/92
DCN 92.01	Expired	1	05/22/92
DCN 92.02	Expired	1	05/15/92

**ENVIRONMENTAL MANAGEMENT
DOCUMENT CHANGE NOTICE (DCN)**

This is a RED Stamp

Procedure Number 5-21000-OPS-GW.6, Rev. 2

Page 1 of 1

Title <u>Groundwater Sampling</u>	Date <u>6-30-93</u> <i>sepd</i>	DCN Number <u>93-04</u> 5-21000-OPS-GW.6 <i>sepd</i>
Expires <u>6-30-99</u> <i>sepd</i> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u>None</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN Continuation Sheet for Additional Space)						
1	19 of 38	Section 5.7	<p>In the unnumbered table following the first paragraph, revise the requirements for turbidity as follows(<u>underlined</u> info. in columns indicates change from original text):</p> <table><tr><td><u>Parameter</u></td><td><u>Relative Precision</u></td><td><u>Minimum Calibration</u></td></tr><tr><td>Turbidity, photometric (FTU)</td><td><u>n/a</u></td><td>Each <u>well</u></td></tr></table>	<u>Parameter</u>	<u>Relative Precision</u>	<u>Minimum Calibration</u>	Turbidity, photometric (FTU)	<u>n/a</u>	Each <u>well</u>
<u>Parameter</u>	<u>Relative Precision</u>	<u>Minimum Calibration</u>							
Turbidity, photometric (FTU)	<u>n/a</u>	Each <u>well</u>							
2	21 31 of 38 <i>OK 5/17/93</i>	<i>Sec. 5.7</i> 2nd bullet <i>6th</i> <i>OK 5/17/93</i>	Delete field nitrate analyses for samples collected from wells in the vicinity of the West Spray Field.						

DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991

Justification (Reason for change – Provide numbers to reference corresponding items above)

1. To provide consistency with Table GW.5-1.

2. Analysis of field nitrate is no longer required since all purge water is containerized and disposed of at the decon pad; *NITRATE ANALYSIS WAS ONLY REQUIRED WHEN PURGE WATER WAS DISCARDED AT THE SAMPLING SITE.*
THIS DOCUMENT CHANGE IS IN RESPONSE TO DOE QUALITY ASSURANCE EVALUATION NO. 93-QA-*6*
LC-010 FOR ENVIRONMENTAL GROUNDWATER SAMPLING ACTIVITIES NO. 5 *6/28/93* *10-15-93*

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	<u>6/28/93</u>	<i>[Signature]</i>	User	X	<u>4/26/93</u>
<i>[Signature]</i>	FOM	X	<u>4-26-93</u>	<i>[Signature]</i>	User	X	<u>6/24/93</u>
				<i>[Signature]</i>	EQS	X	<u>6/23/93</u>
	DOE	<i>MS 6/24/93</i> X		<i>[Signature]</i>	FOM	X	<u>6-28-93</u>
Approval of Responsible Manager <i>[Signature]</i>		Date <u>5/14/93</u>		Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes, By What Date? upon receipt	
						Date Posted	